

TABLE A2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
AUGUST 2019



	Sample ID	Sample Date / Time								
		BH1	BH2	BH4	BH6	BH6B	BH12			
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	7.3	6.9	7.1	6.9	6.7	7.3
	Electrical Conductivity (Lab)	2	µS/cm	4478	830	4400	3400	5300	6900	3300
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	310	770	470	370	490	520
Anions	Chloride	1	mg/L	350	93	1300	900	1800	2400	780
	Fluoride	0.1	mg/L	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Sulfate (SO4)	1	mg/L	1000	22	40	200	230	200	290
Cations	Calcium (Ca)	0.2	mg/L	1000	76	380	250	510	690	220
	Magnesium (Mg)	0.1	mg/L	-	45	300	210	330	440	210
	Potassium (K)	0.1	mg/L	-	0.9	2.1	1.5	0.9	0.3	1.7
	Sodium (Na)	0.5	mg/L	230	33	110	130	110	130	160
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	1.5	6.5	5.2	2.4	3.4	6.4
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.02	0.07	0.02	0.01	< 0.01	0.19
	Nitrate (NO3) as N	0.005	mg/L	-	2.6	-	6	-	-	6.4
	Nitrate (NO3) as N	0.025	mg/L	-	-	< 0.025	-	< 0.025	-	-
	Nitrate (NO3) as N	0.05	mg/L	-	-	-	-	-	< 0.05	-
Trace Metals	Copper (Cu)	0.001	mg/L	200	< 0.001	0.002	0.01	< 0.001	0.001	0.004
	Iron (Fe)	0.005	mg/L	200	< 0.005	0.006	< 0.005	0.011	< 0.005	< 0.005
	Manganese (Mn)	0.001	mg/L	200	0.005	0.017	0.11	0.27	0.097	0.066
	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	0.0007	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Phenolics	Total Phenols	0.01	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.02

Note: No discharge observed to be occurring at location SW1 at time of sampling. Discharge criteria not applicable to sample SW1.

- mg/L milligrams per litre
- µg/L micrograms per litre
- µS/cm microsiemens per centimetre
- LOR limit of reporting
- PS primary sample
- Criteria Criteria adopted from Australian and New Zealand Environment and Conservation Council (ANZECC) Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) Australian and New Zealand Guidelines for Fresh and Marine Water Quality - 'Primary Industries: Water quality for irrigation and general water use'

and/or

NSW EPA Environment Protection Licence 6180 'Limit Conditions - L2.4 Water and/or Land Concentration Limits', 2013

within criteria

criteria exceeded